

14 <210> 12  
E--> 15 <211> 8372  
16 <212> DNA  
17 <213> Homo sapiens  
18 <400> 12

This is the result of going over the 72-character  
limit required by sequence linker.  
Each line has a maximum of 72  
characters.

good nuclear acid  
folded over to left

E--> 19 aagcttggtg ccactatattt tggactatgc cttgcatata gctttatggg aacatttgtc 60 agg  
W--> 20  
E--> 21 tgtg ctgaggatgg 180  
22 cctggtctgc caccctcttc gactagcatt ttgcatgtgt aacagggtct cccctctggg 240  
23 gcacaacaac aaagagaagt tgctaaggac aagaagcagg tgcggaaatg catctcccat 300  
E--> 24 tggaacagcc ctgggcttac tccaatggct gagagagggt ctatggccag tctctccaga 360 gct  
W--> 25  
26 ttcc catcggcgca 480  
27 cctgccccg agccaagaag acaggctggt gctgctgtat ttgtatttat atccattgct 540  
28 gcgctctgcg ttctcgtggc acgctcggac actcctccgc ctccccctcc tcttctctct 600  
29 ccagggccac ctccccgcct tccccacccc catctgcttc tgtcaaatga gaaagtcacc 660  
E--> 30 gaggagaacc caaacactcc agccgctgag agccccctt ggcacttggc agcacgcggc 720 ggc  
E--> 31 catttaagag agaacgaccg aggaggagga gcgctctgcc cggccgcccgc tacctgcggg 840 gag  
W--> 32  
33 caac ctgctcgagc 960  
E--> 34 gctcggcccg agacactaag gcggccccgg gcgcggcggt gccctggctg gtccccccagc 1020 ccc  
W--> 35  
36 cccg ggccggcgcg 1140  
E--> 37 ggctgcagcc gcggcagggc gagagcatgt ccaagccggt ggaccacgtc aagcggccca 1200 tga  
W--> 38  
39 actg ctcacagagt 1320

PAGE: 2

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/489,101

DATE: 02/11/2000

TIME: 09:52:55

Input Set: I489101.RAW

```

E--> 40      cggagaagcg gccgttcacg gacgaggcca agcgtctacg cgccatgcac atgaaggagc      1380 acc
W--> 41
E--> 42      gcac cctgcgetca      1500 agggggggcg cggtgtgcac gggggggcg gggggggcct ggtgcctga
W--> 43
E--> 44      cgccg ccgcccgcgc cgcgggcagc cctactcgc      1680 tgctcgacct gggctccaaa atggcaga
E--> 45      cgctgcctgt gggctaccgc accggggcg cggtgcctt ccacggcgcg gggggggcg      1800 ctg
W--> 46
      47      gctg cagccgcgc      1920
E--> 48      tcgcctacat cctgctgccg ggcattgggca agccccagct ggaccctac cccggggcct      1980 acg
E--> 49      atatgtatag gtacgagcg tgccggcctcc cgtgcgcc tcccgcgacc gggggggcg      2100 ttt
W--> 50
      51      cagg atcatttcag      2220
E--> 52      acccgcactt cggcagccaa ctcgaaagca ggcggttgtg tgcggcagca gttggcgctt      2280 gct
W--> 53
E--> 54      tttt tgttttctcat      2400 ttttttctt cgcctctcag cccccaacc cccaacccc tcccggtcc
W--> 55
E--> 56      agcag cctgcctcc ctgtttgtac tttttgaact      2580 ttgcagatct ctgttctctc aagcagaa
W--> 57
E--> 58      atcaga gcaagagctc tttctcaagg gcaagaaagc caaacaagaa atatttgtga      2760 gatgaaa
W--> 59
E--> 60      aaaaggcact      2880 gtcctatctt tcccttatgg ctgagttcac cttaagattg taaatgtgta tat
W--> 61
E--> 62      ttaactttta aaaattgcga aactatttca      3060 gaatcgcaat ttatcgaaag attaaatcag act
W--> 63
E--> 64      t ctctcccaag ttgagctggg ttaatgtgtt ttggatttcc ctctcaatt      3240 ggcttatttt t
W--> 65
E--> 66      aatgt      3360 ttgtgaatga agttggctaa catgtattta gtttcatttt ggctttatgt aatataaa
W--> 67
E--> 68      aaatta gaatccgact atcactctgt      3540 tcattttttt tgaacaaaga gtttaataa agcctga
W--> 69
E--> 70      tatctc caaaggcacc ctttgtttca cttttgaata gatttactag      3720 gaaatctaaa tcaagc
W--> 71      3840 aaaaaaagg cattcatgaa ccagtagaac agagccatt gaaaacatcc agacctttca
E--> 72      t tgttctccta tctttgggt      4020 attccttggt gacaccttaa ggttttattt ggaaggataa t
W--> 73
E--> 74      gt tggatttcta gggctagaca aattgctact aaagtttgaa      4200 aaatcataaa ggattttaat
E--> 75      320 aaaccagttt cccattgag accatctctg gagctgcag tctttataaa cgaccaagt      4380
W--> 76
E--> 77      attaaaa tgatccctct      4500 cctgttatcc cctgagctct ttgcaatatt ataagttaat tcatat
W--> 78
E--> 79      ttgtagca gcccatccct tctcaacag gaacttctgc      4680 ggctcgctgg aaatcacccc agccc
W--> 80
E--> 81      cagcgtttt ctgggagaaa cgctccggag ttgttgatga atgagaagag gactggaaa      4860 atgg
W--> 82
E--> 83      ac ccattctgac      4980 tccaatggtc ttgctaacia gttggcggtt ttgcgctg cagagagcct
W--> 84
E--> 85      agc gtctgaaagt gggccacaaa tgcagcgctg      5160 tgattgggca gagagctgct gctggctcgc
W--> 86
E--> 87      ttct ttccttctt tttattcttc tttttcgtt tcttttcaag gttttttta      5340 aagccatga
W--> 88
E--> 89      cgctgtgt      5460 aagcagtaag aactggtgct ggggagctgt cgcgcgagg ggtggctttg ggaga

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*please edit*

PAGE: 3

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/489,101

DATE: 02/11/2000  
TIME: 09:52:55

Input Set: I489101.RAW

```

W--> 90
E--> 91      cccaggctc ggggcgcaga agatggagag      5640 aagattccac tctccccgga gcagataggg acgg
W--> 92
E--> 93      cctcgagggt ccgcgtcttt cttgcgcccg cggcccagcg gaggccgagg      5820 gagccgtcca aac
W--> 94
E--> 95      ccc      5940 cccttttctt ttttctctct tgcagggggg aaaaaaaggg aaatggtgaa aagagctttt
W--> 96
E--> 97      gagt gttgtttgtt gaagtggagc      6120 taagaaaaag cggcggcttt ctctcattg tgaagaaac
W--> 98
E--> 99      agctg gccggaatga atagcgggtgc aatgtgtaca cgctttgtcc      6300 ctccggcctt caagtagc
W--> 100      6420 tgacccaaaac tggataaaact gaatgacaaa acggtgaaag gggaacaaaa agatatttaa      64
E--> 101      atgctttttg caagggtctt      6600 gaatagatat gcttttgcaa gggctgaatg ggaaaaggta aag
W--> 102
E--> 103      gaagcaataa ttgccattat tagcattgtc tgcggcagat      6780 agaaattgaa caggttgga taa
E--> 104      0 ttocctgtgt ccatttgccc agcgtggaa tctgtggagc aggaagcctg gcaattccaa      6960 g
W--> 105
E--> 106      ggcac atggttagtg      7080 ctactgaat agtcgtggta tgaatgaatg aacgaatgaa tgaatgaa
W--> 107
E--> 108      catcat cccaccctg ggagaaaggc ccacgcagga      7260 tggtcgcttc ccccttgctg agagttt
W--> 109
E--> 110      ccaaatc cactccaaag ccgaggatgg tgagactgtg aagttgcaaa gaaacacaga      7440 gccac
W--> 111
E--> 112      tgggacagag      7560 aacctctgt cccccacgag gcaaggcgcg aaccgcaga gatctggggg gcc
113      tccctgcgct gccctggagg cgtccataga ggcctttgcc gccaggaca gcaattgttt      7680
114      tattttcgat ggttgctcgc caggctgcgg gtgcggggcc caccagccg tcgaactttc      7740
115      cagtogttat cagcgtcgtc cctaacttaa tggataaatg caaattatag cctgcccagc      7800
116      tgacacgtcc ctgcgaatgc gccggggctg agctctggcc agccgctctc tcgacgtctc      7860
117      ggacggccgg agggaatgaa gctctgaatt gtgacaaaag tggggggggc accccaaatt      7920
118      ctcaaagcaa tgttcttttt ttttctttt ttcttaagca attgagcctt accaaatgtc      7980
119      ggggcgggcc gcacggaagc cttgcatatt ttaaagtgtg acctgagcct tcgcggtttc      8040
120      agcttcactt aaaacatgca aattcttgaa attgaaaaat ctgaaaaact tccgaagagt      8100
121      tctatctgaa taaatccaaa tccattggga gtcgctttga ggagacaaaa cgcacagcga      8160
122      tttgggggtga gggatatttg tggggaggca ggacgtgctg gattgggttt ccagggtcaa      8220
123      ggtgtctctg ggccttcgac gatagcctta gcgcagagca gggaagtggc accgctaggc      8280
124      agcaagctca gttgctctac tttgtgacc catcccccca cccccccac cgccaccctt      8340
125      gcctccgggc cactgcccct ctctgcaagc tt      8372

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*see following pages for more errors*

PAGE:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/489,101

DATE: 02/14/2000

TIME: 14:11:50

Input Set: I489101.RAW

45	tatctccccg	gcgccgaggt	gccggaaccc	gccgccccca	gcagacttca	catgtcccag	900
46	cactaccaga	gcgccccggt	gcccggcacg	gccattaacg	gcacactgcc	cctctcacac	960
47	atgtgagggc	cggacagcga	actggagggg	ggagaaattt	tcaaagaaaa	acgagggaaa	1020
48	tgggaggggt	gcaaaagagg	agagtaagaa	acagcatgga	gaaaacccgg	tacgctcaaa	1080
49	aaaaa						1085
50	<210>	SEQ ID NO 4					
51	<211>	LENGTH: 4091					
52	<212>	TYPE: DNA					
53	<213>	ORGANISM: Homo sapiens					
54	<400>	SEQUENCE: 4					
55	ccggccgtct	atgtctcagg	ccctctctct	gcgggtgccg	tgaacccgcc	agccgccccg	60
56	atgtacagca	tgatgatgga	gaccgacctg	cactcgcccc	gcgccgcccc	ggccccacg	120
57	aacctctcgg	gccccgcccg	ggcgggcgcc	ggcgggggcg	gaggcggggg	cgccggcgcc	180
58	ggcgggggcg	ccaaggccaa	ccaggaccgg	gtcaaacggc	ccatgaacgc	cttcatggtg	240
59	tggtccccg	ggcagcgccg	caagatggcc	caggagaacc	ccaagatgca	caactcggag	300
60	atcagcaagc	gcctgggggc	cgagtggaa	gtcatgtccg	aggccgagaa	gcggccgttc	360
61	atcgacgagg	ccaagcggct	gcgcgcgctg	cacatgaagg	agcaccggga	ttacaagtac	420
62	cgccgcgcgc	gcaagaccaa	gacgtgtctc	aagaaggaca	agtactcgct	ggccggcggg	480
63	ctcctggcgg	cgccgcgggg	tggcgccggc	gcggctgtgg	ccatgggcgt	ggcggtgggc	540
64	gtgggcgcgg	cgcccgctgg	ccagcgcctg	gagagcccag	gcggcgcgcc	ggcgcgcgcg	600
65	tacgcgcacg	tcaacggctg	ggccaacggc	gcctaccccg	gctcgggtgg	ggccgcggcg	660
66	gccgcgcggg	ccatgatgca	ggaggcgag	ctggcctacg	ggcagcacc	cgccgcgggc	720
67	ggcgcgccac	cgcaccgcac	ccggcgccac	ccgcaccgcg	accaccgcga	cgcgaccgcg	780
68	cacaaccgcg	agcccatgca	ccgctacgac	atgggcgcgc	tgcagtacag	ccccatctcc	840
69	aactcgcagg	gctacatgag	cgctcgcgcc	tcgggctacg	gcggccctcc	ctacggcgcc	900
70	gcggccgcgc	ccgcgcgcgc	gcaccagaac	tcggccgtgg	cgccggcgcc	ggcgccgcgc	960
71	gccgcgctgt	cgggcgccct	ggcgcgctgt	ggctctctgt	tgaagtcgga	gcccagcggc	1020
72	agcccgcccc	ccccagcgca	ctcgcgggcg	ccgtgccccg	gggacctgcg	cgagatgatc	1080
73	agcatgtact	tgcccgccgg	cgagggggcg	gacccggcg	cgccagcagc	ggccgcggcg	1140
74	cagagccggc	tgactctgct	gccgcagcac	taccagggcg	cgccgcggcg	cgtgaacggc	1200
75	acggtgcccc	tgacgcacat	ctagcgccct	cgggacgcgc	gggactctgc	ggcgccgacc	1260
76	cacgagctcg	cgcccgccgc	ccggctcccg	ccccgccccg	gcggcgccgt	gcttttgtat	1320
77	cagacgttcc	cacattcttg	tcaaaaggaa	aatactggag	acgaacggcg	ggtgacgcgt	1380
78	gtccccact	caccttcccc	ggagaccctg	gcgaccgcgc	ggcgctgaca	ccagacttgg	1440
79	tttagactga	acttcgggtg	tttcttgaga	cttttgtaca	gtatttatca	cctacggagg	1500
80	aagcggaagc	gttttctttg	ctcgagggga	caaaaaagtc	aaaacgaggg	gagaggcgaa	1560
81	gcccactttt	gtataccggc	cgccgcgctc	actttcctcc	gcgttgcttc	cgacggcgcc	1620
82	cgaccgcggg	agcccaagtg	acgcggagct	cgctgcattt	gttataaatg	tagtaaggca	1680
83	gggtccaagca	cttacaagtt	ttttgtagtt	gttaccgctc	ttttgggttg	gtttgttaat	1740
84	ttatacaaag	agattaccac	caccaccccc	tccttcagac	ggcggaagta	tattctgggt	1800
85	tttgtaaaac	tttatgtatc	tgagcatttc	catttttttt	tttgggtttt	gtattatttc	1860
86	ttgtaaatgc	attgtgaaaa	attttatttt	cgccgttgca	atgcggggag	gagaagtcag	1920
87	attatgtaca	tagttttcta	aaaagccttt	cttctaaaaa	cgaaaaaaga	ccccaccaca	1980
88	aaatgtttcg	agtcaacaaa	tttaagagac	agagcccat	ttctccataa	atttgaaca	2040
89	tgctatttt	tatgtgcatg	ttttatgagt	tcaaaatgca	atgagggaaa	tctgacaggg	2100
90	aaattatctg	tatgaactaa	aagtaaggga	acccggggaa	tgggaggaca	ggatttttca	2160
91	aggaaccttt	ttcaatgaaa	gagaaggga	ttaaaacct	taggttattt	tgtagagctg	2220
92	agtgttaata	cgggccgaga	aataaaagta	tcctctgctc	cggtgttttc	actgcggacg	2280
93	gctggggctg	ctgcgcgtta	ccttgctgca	acggggcgcc	ttccacctgg	ctgggggtct	2340
94	gcgccacagt	ttggtccaga	ngwgggagga	ggaagggaag	accccgagtg	tgggaccctg	2400

W--&gt;

W--&gt;

See  
item 10  
on Summary  
Sheet





Input Set: I489101.RAW

[illegible]

. 40 E Wrong Amino Acid Designator  
40 E Wrong Amino Acid Designator

cggagaagcg gccgttcac gacgaggcca agcgtcta  
cggagaagcg gccgttcac gacgaggcca agcgtcta



Input Set: I489101.RAW

[illegible]





. 56 E Wrong Amino Acid Designator  
56 E Wrong Amino Acid Designator

agcag cctcgccctcc ctgtttgtac tatttgaact  
agcag cctcgccctcc ctgtttgtac tatttgaact

Input Set: I489101.RAW

[illegible]

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• • •

Input Set: I489101.RAW

[illegible]

68 E Wrong Amino Acid Designator  
68 E Wrong Amino Acid Designator  
68 E Wrong Amino Acid Designator

aaatta gaatccgact atcactctgt	3540 tcat
aaatta gaatccgact atcactctgt	3540 tcat
aaatta gaatccgact atcactctgt	3540 tcat



# Raw Sequence Listing Error Summary

## ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER:

09/489,101

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 ☐ Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 ☒ Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 ☐ Misaligned Amino Acid Numbering The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 ☐ Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 ☐ Variable Length Sequence(s) ☐ contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 ☐ PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) ☐. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence.
- 8 ☐ Skipped Sequences (OLD RULES) Sequence(s) ☐ missing. If intentional, please use the following format for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X:  
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:  
This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 ☐ Skipped Sequences (NEW RULES) Sequence(s) ☐ missing. If intentional, please use the following format for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 10 ☒ Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 ☐ Use of <213>Organism (NEW RULES) Sequence(s) ☐ are missing this mandatory field or its response.
- 12 ☐ Use of <220>Feature (NEW RULES) Sequence(s) ☐ are missing the <220>Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"  
Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 ☐ PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).  
Instead, please use "File Manager" or any other means to copy file to floppy disk.

Input Set: I489101.RAW

[illegible]



Input Set: I489101.RAW

[illegible]

81 E Wrong Amino Acid Designator  
81 E Wrong Amino Acid Designator

cagcgtttt ctgggagaaa cgctccggag ttgttgatg  
cagcgtttt ctgggagaaa cgctccggag ttgttgatg

Input Set: I489101.RAW

[illegible]

87 E Wrong Amino Acid Designator  
87 E Wrong Amino Acid Designator  
87 E Wrong Amino Acid Designator

ttct ttccttcct tttattcttc tattttcggt tct  
ttct ttccttcct tttattcttc tattttcggt tct  
ttct ttccttcct tttattcttc tattttcggt tct

Input Set: I489101.RAW

[illegible]



93 E Wrong Amino Acid Designator

cctcgagggt ccgcgtcttt cttgcgcccg cggcccag

[illegible]

99 E Wrong Amino Acid Designator  
99 E Wrong Amino Acid Designator

agctg gccggaatga atagcgggtgc aatgtgtaca cg  
agctg gccggaatga atagcgggtgc aatgtgtaca cg

Input Set: I489101.RAW

[illegible]



Input Set: I489101.RAW

Line ? Error/Warning

Original Text

107 W Invalid/Missing Amino Acid Numbering

108 E Wrong Amino Acid Designator

108 E Wrong Amino Acid Designator

108 E Wrong Amino Acid Designator

108 E Wrong Amino Acid Designator

108 E Wrong Amino Acid Designator

108 E Wrong Amino Acid Designator

108 E Wrong Amino Acid Designator

108 E Wrong Amino Acid Designator

108 E Wrong Amino Acid Designator

108 E Wrong Amino Acid Designator

108 E Wrong Amino Acid Designator

108 E Wrong Amino Acid Designator

108 E Wrong Amino Acid Designator

108 E Wrong Amino Acid Designator

108 E Wrong Amino Acid Designator

108 E Wrong Amino Acid Designator

108 E Wrong Amino Acid Designator

109 W Invalid/Missing Amino Acid Numbering

110 E Wrong Amino Acid Designator

110 E Wrong Amino Acid Designator

110 E Wrong Amino Acid Designator

110 E Wrong Amino Acid Designator

110 E Wrong Amino Acid Designator

110 E Wrong Amino Acid Designator

110 E Wrong Amino Acid Designator

110 E Wrong Amino Acid Designator

110 E Wrong Amino Acid Designator

110 E Wrong Amino Acid Designator

110 E Wrong Amino Acid Designator

110 E Wrong Amino Acid Designator

110 E Wrong Amino Acid Designator

110 E Wrong Amino Acid Designator

110 E Wrong Amino Acid Designator

110 E Wrong Amino Acid Designator

110 E Wrong Amino Acid Designator

110 E Wrong Amino Acid Designator

111 W Invalid/Missing Amino Acid Numbering

112 E Wrong Nucleic Acid Designator

112 E Wrong Nucleic Acid Designator

112 E Wrong Nucleic Acid Designator

112 E Wrong Nucleic Acid Designator

catcat cccacccctg ggagaaaggt ccacgcagga

catcat cccacccctg ggagaaaggt ccacgcagga

catcat cccacccctg ggagaaaggt ccacgcagga

catcat cccacccctg ggagaaaggt ccacgcagga

catcat cccacccctg ggagaaaggt ccacgcagga

catcat cccacccctg ggagaaaggt ccacgcagga

catcat cccacccctg ggagaaaggt ccacgcagga

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catcat cccacccctg ggagaaaggt ccacgcagga

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ccaaatc cactccaaag ccgaggatgg tgagactgtg

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ccaaatc cactccaaag ccgaggatgg tgagactgtg

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ccaaatc cactccaaag ccgaggatgg tgagactgtg

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